

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 26 MAR 2004

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							TOTAL PC	
Applicant's or agent's file reference  FOR FURTHER AC				CTION		n of Transmittal of Interna amination Report (Form F		
International application No. International filing date			(day/mon	th/year)	Priority date (day/month	n/vear)		
PCT/DK 03/00407 19.06.2003					21.06.2002	•		
Inter	nation	al Pat	ent Classification (IPC) or b	oth national classification	and IPC			<del></del>
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Appl	icant							
ME	TANI	TE A	/S et al.					
	This							
1.	Auth	nority	national preliminary exa and is transmitted to the	mination report has been applicant according to	en prepar Article 3	ed by this intei 6.	rnational Preliminary E	xamining
		•				•		
2.	This	REP	ORT consists of a total	of 6 sheets, including t	his cover	sheet		•
		This	report is also accompa	nied by ANNEXES, i.e.	sheets o	f the description	n, claims and/or drawi	ngs which have
		(see	n amended and are the Rule 70.16 and Section	n 607 of the Administra	a <i>r</i> or sneet tive Instri	is containing re actions under t	ectifications made befo. he PCT).	re this Authority
	The							
	ine	se an	nexes consist of a total	or sneets.				
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3.	This	repo	rt contains indications re	elating to the following it	ems:			
	I	$\boxtimes$	Basis of the opinion					
	11		Priority					
	111		Non-establishment of	opinion with regard to n	ovelty, in	ventive sten a	nd industrial applicabili	tv
	IV		Lack of unity of invent		,	.voivo olop di	na maadma apphoabii	•9
	٧	×	•	ınder Rule 66.2(a)(ii) w	ith rocard	I to novolty in	rantiva atan ar industria	al continghility
	•		citations and explanat	ions supporting such st	atement	i to noveny, miv	rentive step of industria	а аррасавшу;
	VI		Certain documents cit	ed				
	VII		Certain defects in the	international applicatior	1			
	VIII   Certain observations on the international application							
Date of substitution of the decorate								
Date of submission of the demand			Date of	completion of this	s report			
4-0								
15.01.2004			25.03.	2004				
Name and mallion address of the International								
prelin	Name and mailing address of the international preliminary examining authority:			Authoriz	ed Officer		disches Perente av	
	European Patent Office			Telepho	ne No. +49 89 23	399-	11	
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d								
	Fax: +49 89 2399 - 4465							

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١.	Basi	is of	the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages						
	1-1	5	as originally filed				
	Cla	ims, Numbers					
	1-4	4	as originally filed				
	Dro	wings, Sheets					
	1/3-	-3/3	as originally filed				
2.	Wit lan	h regard to the <b>lang</b> u guage in which the in	uage, all the elements marked above were available or furnished to this Authority in the attendational application was filed, unless otherwise indicated under this item.				
	The	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of a tr	translation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pub	olication of the international application (under Rule 48.3(b)).				
		the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of international preliminary examination (under .3).				
3.	Witl inte	Vith regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the nternational preliminary examination was carried out on the basis of the sequence listing:					
		contained in the inte	ernational application in written form.				
		filed together with th	ne international application in computer readable form.				
		furnished subseque	ntly to this Authority in written form.				
		furnished subseque	ntly to this Authority in computer readable form.				
		The statement that to in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.				
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have r	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
			•				

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5. 📙	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

1-44

Inventive step (IS)

Yes: Claims

Claims

1-44

No: Claims

Industrial applicability (IA)

Yes: Claims

1-44

No: Claims

2. Citations and explanations

see separate sheet



## Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 1.

D1: GB-A-1 405 587 D2: WO-A-9419539

The closest prior art to the subject-matter of present claim 1 is known from 2. document D1. This document discloses (cf. in particular page 5, line 114-page 6, line 20; page 6, lines 55-109; figures):

"An installation for manufacturing of shaped elements from fibrous waste material, said installation comprising means for mixing a portion if fibrous waste material with at least water, at least one conveyor belt for transporting said mass of waste material and water, a first press for pressing and draining the mass for an amount of surplus water, and means for cutting said pressed mass into elements of predetermined lengths."

The subject-matter of present claim 1 differs from this disclosure in that a second press adapted to co-operate with said conveyor belt for simultaneously pressing and vibrating the mass is provided.

Thereby, the dewatering process of the mass can be improved.

Document D1 merely defines the features mentioned above.

Document D2 (cf. in particular page 11, lines 10-34; page 14, line 32-page 17, line 6; figures) defines a similar installation, wherein the mass of waste material and water is also treated on a first press for pressing and draining the mass. Thereafter, the mass is transferred from the conveyor to be cut and dried and to be treated in two further press stations. However, no vibrating action is disclosed.

Therefore, no indications for the subject-matter of present claim 1 can be found in documents D1 and D2.

The subject-matter of claim 1 is therefore considered as being novel and involving



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an inventive step with respect to the cited prior art (Article 33(2) and (3) PCT).

The industrial applicability of the installation according to claims 1 is obvious (Article 33(4) PCT).

- 3. Claims 2-19 define additional features of the invention according to claim 1 and as such also meet the requirements of the PCT with respect to novelty, inventive step and industrial applicability with respect to the cited prior art.
- 4. Present claim 20 defines an apparatus for pressing a mass of fibrous waste material.

The closest prior art to this subject-matter is also known from document D1 (cf. in particular page 5, line 130-page 6, line 12), disclosing an upper and lower opposing surface, at least a part of one of the surfaces being perforated, so as to drain the mass when the mass is pressed between the surfaces.

The subject-matter of present claim 20 differs from this disclosure in that at least one of the surfaces is adapted to vibrate in relation to the mass.

Document D1 mentions passing the layer of slurry carried by a vibrating conveyor through a dewatering device formed between top and bottom belts, like it is shown in figure 3 or 4 of document D1. However, it is not disclosed suggested that one of these belts is formed by the vibrating conveyor itself.

The subject-matter of claim 20 is therefore also considered as being novel and involving an inventive step with respect to the cited prior art (Article 33(2) and (3) PCT).

The industrial applicability of the apparatus according to claims 20 is obvious (Article 33(4) PCT).

- Claims 21-24 define additional features of the invention according to claim 1 and as such also meet the requirements of the PCT with respect to novelty, inventive step and industrial applicability with respect to the cited prior art.
- 6. Present claim 25 defines a method corresponding to the use of the installation claimed in present claim 1.



For the reasons given above, the subject-matter of this claim is therefore also considered as being novel and involving an inventive step with respect to the cited prior art (Article 33(2) and (3) PCT).

The industrial applicability of the method according to claims 20 is obvious (Article 33(4) PCT).

- Claims 26-44 define additional features of the method according to claim 25 and 7. as such also meet the requirements of the PCT with respect to novelty, inventive step and industrial applicability with respect to the cited prior art.
- The following points are also to be mentioned: 8.
  - Independent claim 1 is not in the two-part form in accordance with Rule a. 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from document D1 being placed in the preamble (6.3(b)(i) PCT) and with the remaining features being included in the characterizing part (6.3(b)(ii) PCT).
  - The features of the claims should have been provided with reference signs b. placed in parentheses to increase the intelligibility of the claims (Rule 6.2(b) PCT).
  - C. Certain published documents (Rule 70.10)

Application No	Publication date (day/month/year)	Filing date	Priority date (valid claim)	
Patent No		(day/month/year)	(day/month/year)	
WO-A-02096536	05.12.2002	31.05.2002	31.05.2001	

This document is considered highly relevant with respect to the question of novelty of the subject-matter of present claims 20-24.